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FIG. 1

MESSAGE OBJECT(MASTER CLASS)

ATTRIBUTE

1. MESSAGE NAME(ITEM DISCRIMINATOR)
2. ITEM TYPE(ITEM TYPE INFORMATION)
3. MEMORY ADDRESS(ADDRESS INFORMATION)

FUNCTION

DATA STORING FUNCTION;
DATA RETRIEVING FUNCTION;
STRING CONVERSION FUNCTION;
OBJECT RESTORING FUNCTION;

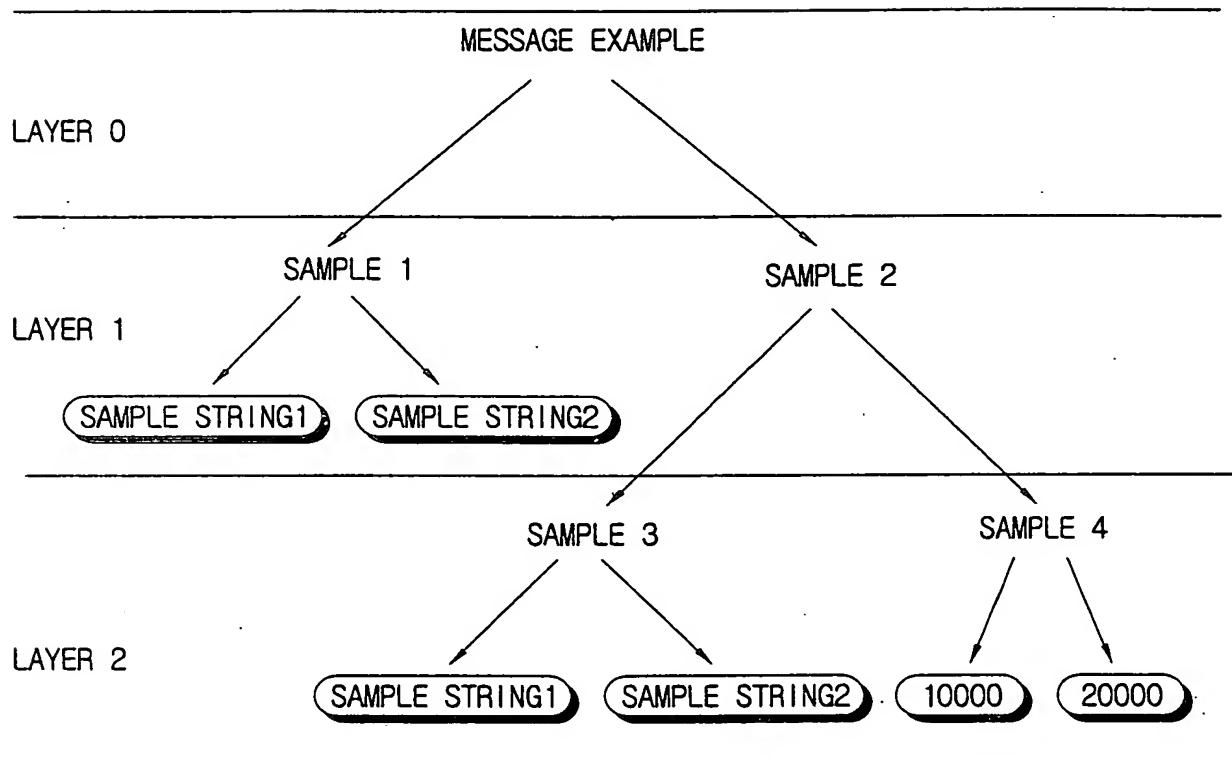
FIG. 2

MESSAGE NAME OF LAYER 0	DISCRIMINATOR	MESSAGE NAME OF LAYER 1	DISCRIMINATOR	MESSAGE NAME OF LAYER 2
NAME 0	•	NAME 1	•	NAME 2

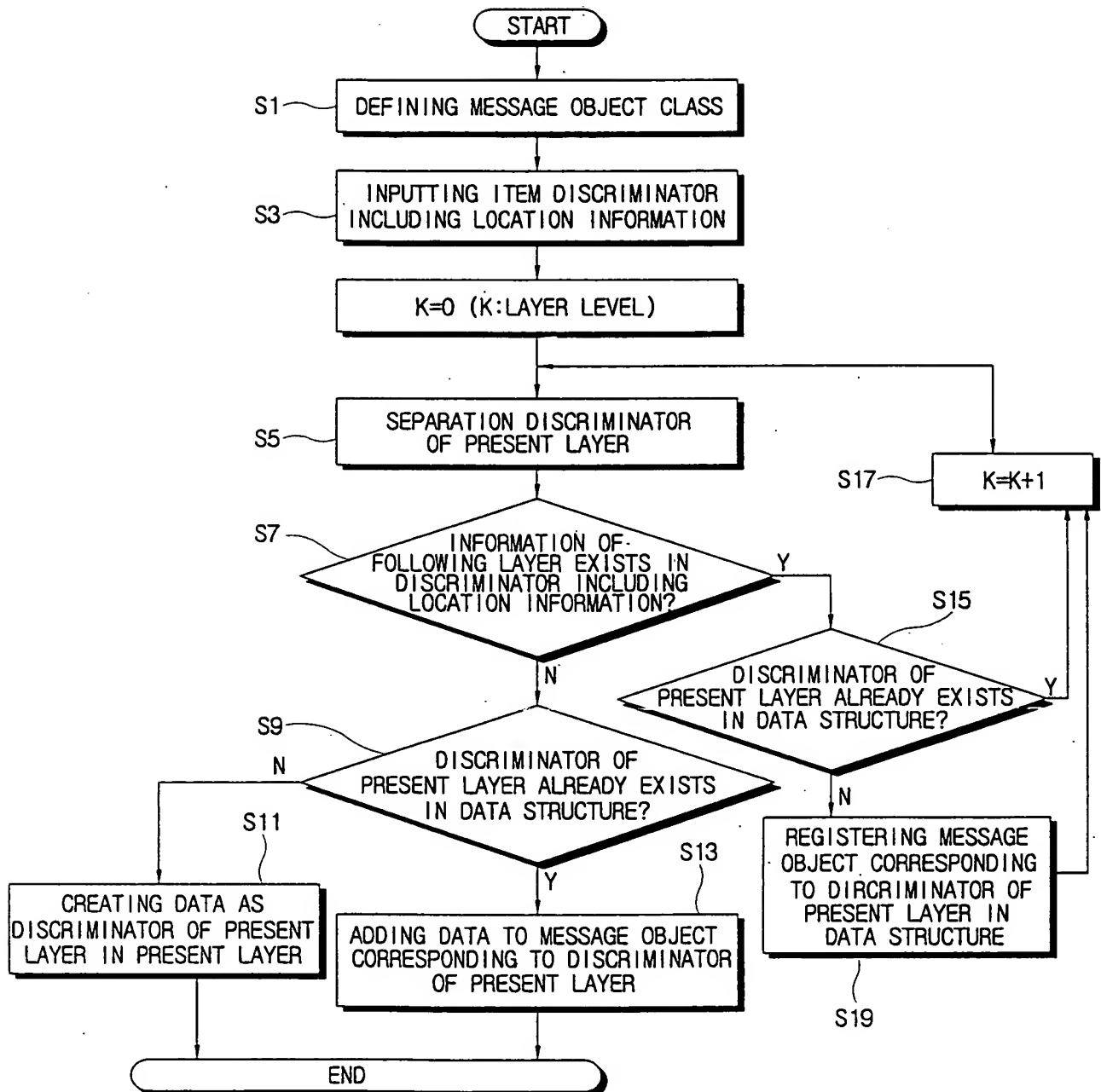
FIG. 3A

LAYER 0		LAYER 1		LAYER 2	
MESSAGE NAME	"MESSAGE EXAMPLE"				
LIST ITEM TYPE	MESSAGE OBJECT TYPE				
LINKED LIST	POINTER MESSAGE OBJECT	MESSAGE NAME	"SAMPLE1"		
		LIST ITEM TYPE	STRING TYPE		
		LINKED LIST	POINTER "SAMPLE STRING1"		
			POINTER "SAMPLE STRING2"		
	POINTER MESSAGE OBJECT	MESSAGE NAME	"SAMPLE2"		
		LIST ITEM TYPE	MESSAGE OBJECT TYPE		
		LINKED LIST	POINTER MESSAGE OBJECT	MESSAGE NAME	"SAMPLE3"
				LIST ITEM TYPE	STRING TYPE
				LINKED LIST	POINTER "SAMPLE SUB STRING1"
					POINTER "SAMPLE SUB STRING2"
			POINTER MESSAGE OBJECT	MESSAGE NAME	"SAMPLE4"
				LIST ITEM TYPE	INTEGER TYPE
				LINKED LIST	POINTER 10000
					POINTER 20000

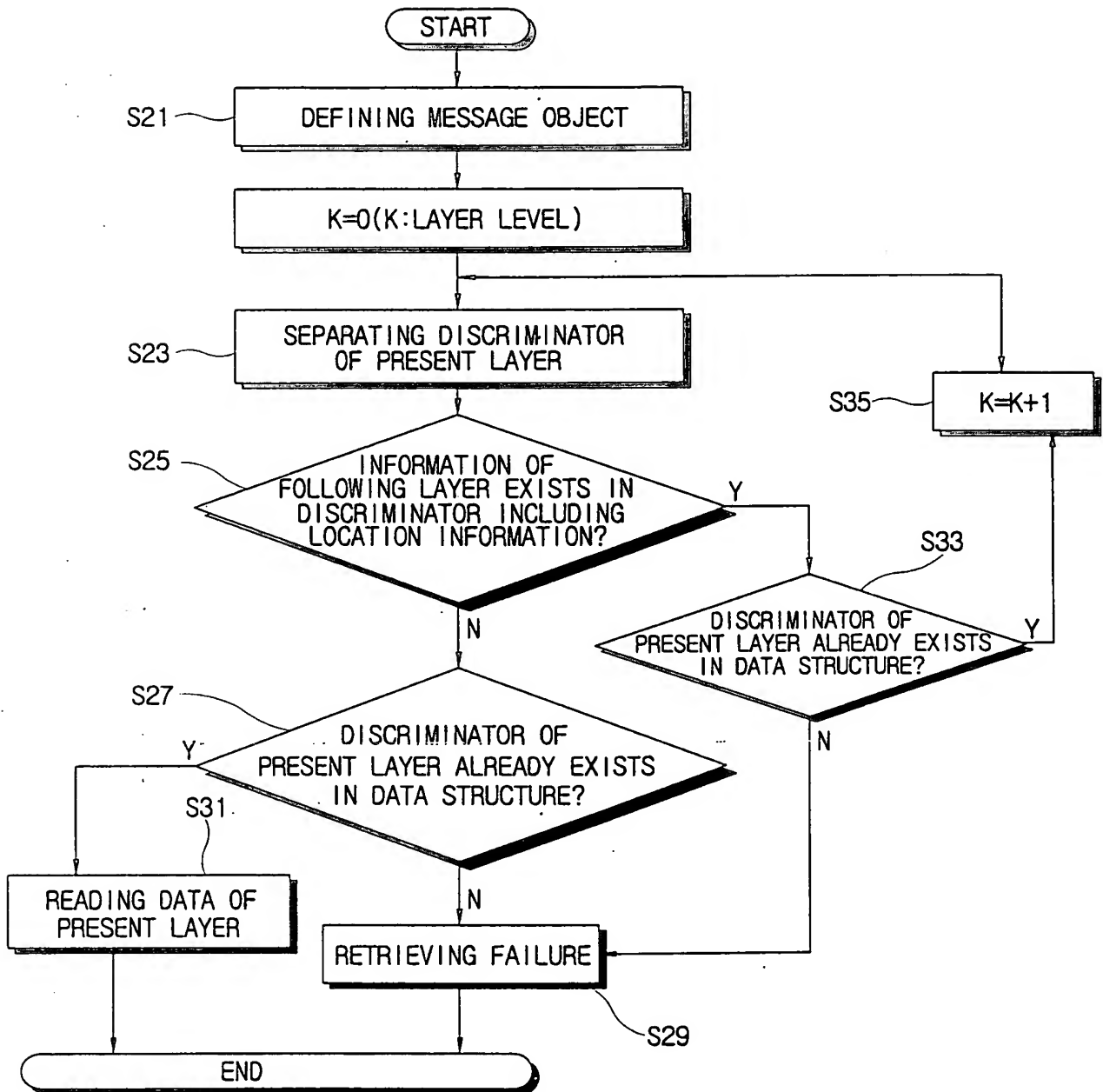
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FIG. 3B



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FIG. 4



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FIG. 5



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FIG. 6

